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TITLE: METHOD FOR RECOVERING RU FROM METALLIC ELECTRODE

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ABSTRACT:

PURPOSE: To efficiently recover Ru by peeling off an Ru-containing coating layer from an electrode base material, oxidizing the peeled matter by means of heating, reducing precipitated ruthenium oxide, and then separating the resulting metallic ruthenium by dissolution in a solution of sodium hypochlorite.

CONSTITUTION: A peeled matter peeled off from a titanium base material electrode and containing ruthenium dioxide is heated up to 800-1200°C in an oxidizing atmosphere, by which the associated base material composed of titanium, etc., is oxidized and also ruthenium oxide is precipitated. After cooling, the above peeled matter is heated up to 700-1200°C in a reducing atmosphere and the above ruthenium oxide is reduced into metallic ruthenium, and the above is put into an alkaline sodium hypochlorite solution to dissolve metallic ruthenium and separate it by filtration, by which ruthenium liquor is recovered. By this method, ruthenium can be separated and recovered from the metallic electrode in a short time.

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